# SEQ SEARCH SUMMARY

GenCore version 5.1.6 Copyright (c) 1993 - 2004 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on:

June 12, 2004, 13:33:34; Search time 67396 Seconds

(without alignments)

17817.359 Million cell updates/sec

Title:

US-09-942-025**{**12

Perfect score: 27705

Sequence:

1 gtggcgccgatggacagaat.....cagaggatctccatgaatag 27705 - nucleo tides

Scoring table:

OLIGO NUC

Gapop 60.0 , Gapext 60.0

Searched:

3470272 seqs, 21671516995 residues

Word size :

200

son below

Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 500 summaries

GenEmbl:\*

1: gb ba:\*

Database :

2: gb htg:\* 3: gb in:\* 4: gb om:\* 5: gb ov:\* gb pat:\* gb\_ph:\* gb\_pl:\* gb\_pr:\* gb\_ro:\* gb\_sts:\* gb\_sy:\* gb\_un:\* 13: gb vi:\* 15: em\_ba:\* em fun: \* em hum: \* em in:\* 19: em\_mu:\* 20: em om:\* 21: em\_or:\* 22: em\_ov:\* 23: em\_pat:\* 24: em\_ph:\*

em\_pl:\*

em ro:\*

em sts:\*

25:

26:

27:

\* B/c the claims are limited to exact SEQ 12 or a portion that is at least a PKS domain AND b/c in the the art, the smallest PKS domain is greater than 65 amino acids (195 nucleotide limiting the search to a word size of 200 will retrieve au relevant hits!

```
28:
    em un:*
29:
    em vi:*
30:
     em htg hum:*
    em htg inv:*
31:
32:
    em htg_other:*
33:
     em htg mus:*
34:
     em htg pln:*
35:
    em htg_rod:*
36:
    em_htg_mam:*
37:
    em htg vrt:*
38:
    em sy:*
39:
    em_htgo_hum: *
    em htgo mus:*
40:
    em htgo other:*
41:
```

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

```
Result
               Query
                                                       Description
        Score Match Length DB ID
   No.
              51.1 33529 6 AR166425
        14165
                                                       AR166425 Sequence
RESULT 1
AR166425
                                33529 bp
           AR166425
LOCUS
                                            DNA
                                                            PAT 17-OCT-2001
DEFINITION Sequence 3 from patent US 6280999.
ACCESSION
           AR166425
                                         Applicant's CIP parent
VERSION
           AR166425.1
                     GI:16241741
KEYWORDS
SOURCE
           Unknown.
  ORGANISM
           Unknown.
           Unclassified.
REFERENCE
           1 (bases 1 to 33529)
           Gustafsson, C., Betlach, M.C., Ashley, G., Julien, B. and Ziermann, R.
 AUTHORS
           Sorangium polyketide synthases and encoding DNA therefor
 TITLE
           Patent: US 6280999-A 3 28-AUG-2001;
 JOURNAL
FEATURES
                   Location/Qualifiers
                   1. .33529
    source
                   /organism="unknown"
                   /mol type="unassigned DNA"
ORIGIN
 Query Match
                        51.1%; Score 14165; DB 6; Length 33529;
 Best Local Similarity
                        99.9%; Pred. No. 0;
 Matches 15255; Conservative
                               0; Mismatches
                                                5; Indels
                                                              7; Gaps
                                                                         7;
       12439 GATCCCCAGCAGCGGCTGGTGCTGGAGACGGCGTGGGAGGCATTGGAGCGTGCCGGCGTG 12498
Qу
             Db
           1 GATCCCCAGCAGCGGCTGGTGCTGGAGACGGCGTGGGAGGCATTGGAGCGTGCCGGCGTG 60
```

# GenCore version 5.1.6 Copyright (c) 1993 - 2004 Compugen Ltd.

OM nucleic - nucleic search, using sw model

June 12, 2004, 13:31:29; Search time 5997 Seconds Run on:

(without alignments)

19625.868 Million cell updates/sec

Title: US-09-942-025-12

Perfect score: 27705

Sequence: 1 gtggcgccgatggacagaat.....cagaggatctccatgaatag 27705

Scoring table: OLIGO NUC

Gapop 60.0 , Gapext 60.0

Searched: 3373863 seqs, 2124099041 residues

Word size : 200

Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 500 summaries

Database : N\_Geneseq 29Jan04:\*

1: geneseqn1980s:\*

2: geneseqn1990s:\*

3: geneseqn2000s:\*

4: geneseqn2001as:\*

5: geneseqn2001bs:* 6: geneseqn2002s:* 7: geneseqn2003as:* 8: geneseqn2003bs:* 9: geneseqn2003cs:* 10: geneseqn2004s:*  Pred. No. is the number of results predicted by chance to have as score greater than or equal to the score of the result being printed and is derived by analysis of the total score distribution.  SUMMARIES  Result Query No. Score Match Length DB ID  Description												
Result No.	Score	% Query Match	Length	DB	SUMMARIES	Applis	Description					
1 2 3 4 5 6 7	25767 20582 14165 752 480 368 220	93.0 74.3 51.1 2.7 1.7 1.3 0.8	27705 67251 33529 20922 11358 750 787	9 9 5 9 3	ADC26979	6280999	Adc26979 Sorangium Adc26995 Sorangium Aas17367 DNA seque Adc26981 Sorangium Adc26983 Sorangium Aaa58917 DNA encod Aaa58916 DNA encod					

## GenCore version 5.1.6 Copyright (c) 1993 - 2004 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: June 12, 2004, 14:52:34; Search time 1125 Seconds

(without alignments)

13666.591 Million cell updates/sec

Title: US-09-942-025-12

Perfect score: 27705

Sequence: 1 gtggcgccgatggacagaat.....cagaggatctccatgaatag 27705

Scoring table: OLIGO NUC

Gapop 60.0 , Gapext 60.0

Searched: 682709 seqs, 277475446 residues

Word size: 200

Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 500 summaries

Database : Issued Patents NA:\*

1: /cgn2\_6/ptodata/2/ina/5A\_COMB.seq:\*
2: /cgn2\_6/ptodata/2/ina/5B\_COMB.seq:\*
3: /cgn2\_6/ptodata/2/ina/6A\_COMB.seq:\*
4: /cgn2\_6/ptodata/2/ina/6B\_COMB.seq:\*

5: /cgn2\_6/ptodata/2/ina/PCTUS\_COMB.seq:\*
6: /cgn2\_6/ptodata/2/ina/backfiles1.seq:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1 2 3	14165 368 220	51.1 1.3 0.8	750	3	US-09-144-085-3 US-09-010-809-12 US-09-010-809-11	Sequence 3, Appli Sequence 12, Appl Sequence 11, Appl

## ALIGNMENTS

RESULT 1

US-09-144-085-3

; Sequence 3, Application US/09144085

## GenCore version 5.1.6 Copyright (c) 1993 - 2004 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: June 12, 2004, 14:57:19; Search time 6879 Seconds

(without alignments)

18383.440 Million cell updates/sec

Title: US-09-942-025-12

Perfect score: 27705

Sequence: 1 gtggcgccgatggacagaat.....cagaggatctccatgaatag 27705

Scoring table: OLIGO NUC

Gapop 60.0 , Gapext 60.0

Searched: 2998549 seqs, 2282253817 residues

Word size: 200

Total number of hits satisfying chosen parameters: 4

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 500 summaries

Database: Published\_Applications NA: \*

- 1: /cgn2\_6/ptodata/1/pubpna/US07\_PUBCOMB.seq:\*
- 2: /cgn2\_6/ptodata/1/pubpna/PCT\_NEW PUB.seq:\*
- 3: /cgn2\_6/ptodata/1/pubpna/US06 NEW PUB.seq:\*
- 4: /cgn2\_6/ptodata/1/pubpna/US06\_PUBCOMB.seq:\*
- 5: /cgn2 6/ptodata/1/pubpna/US07 NEW PUB.seq:\*
- 6: /cgn2 6/ptodata/1/pubpna/PCTUS PUBCOMB.seq:\*
- 7: /cgn2 6/ptodata/1/pubpna/US08 NEW PUB.seq:\*
- 8: /cgn2 6/ptodata/1/pubpna/US08 PUBCOMB.seq: \*
- 9: /cgn2\_6/ptodata/1/pubpna/US09A PUBCOMB.seq:\*
- 10: /cgn2 6/ptodata/1/pubpna/US09B PUBCOMB.seq:\*
- 11: /cgn2\_6/ptodata/1/pubpna/US09C\_PUBCOMB.seq:\*
- 12: /cgn2\_6/ptodata/1/pubpna/US09 NEW PUB.seq:\*
- 13: /cgn2\_6/ptodata/1/pubpna/US09 NEW PUB.seq2:\*
- 14: /cgn2\_6/ptodata/1/pubpna/US10A PUBCOMB.seq:\*
- 15: /cgn2\_6/ptodata/1/pubpna/US10B\_PUBCOMB.seq: \*
- 16: /cgn2\_6/ptodata/1/pubpna/US10C\_PUBCOMB.seq:\*
- 17: /cgn2\_6/ptodata/1/pubpna/US10\_NEW\_PUB.seq:\*
- 18: /cgn2\_6/ptodata/1/pubpna/US60\_NEW\_PUB.seq:\*
- 19: /cgn2\_6/ptodata/1/pubpna/US60\_PUBCOMB.seq:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

### SUMMARIES

왕 Result Query Score Match Length DB ID No. Description 27705 27705 13 US-09-942-025-12 100.0 Sequence 12, Appl 100.0 67311 27705 13 US-09-942-025-1 Sequence 1, Appli 3 2.9 20922 809 13 US-09-942-025-14 Sequence 14, Appl 1.9 11358 13 US-09-942-025-16 531 Sequence 16, Appl

#### ALIGNMENTS

```
RESULT 1
US-09-942-025-12
 ; Sequence 12, Application US/09942025
 ; Publication No. US20030054547A1
 ; GENERAL INFORMATION:
 APPLICANT: Kosan Biosciences, Inc.
; APPLICANT: Julien, Bryan
   TITLE OF INVENTION: POLYKETIDE SYNTHASE GENE FROM SORANGIUM
   TITLE OF INVENTION: CELLULOSUM
; FILE REFERENCE: 30062-20020.21
; CURRENT APPLICATION NUMBER: US/09/942,025
  CURRENT FILING DATE:
                      2001-08-28
  PRIOR APPLICATION NUMBER: US 60/271,245
; PRIOR FILING DATE: 2001-02-15
; PRIOR APPLICATION NUMBER: US 09/144,085
  PRIOR FILING DATE: 1998-08-31
  PRIOR APPLICATION NUMBER: US 09/010,809
  PRIOR FILING DATE: 1998-01-22
  NUMBER OF SEQ ID NOS: 27
   SOFTWARE: FastSEQ for Windows Version 4.0
 SEQ ID NO 12
   LENGTH: 27705
   TYPE: DNA
;
   ORGANISM: Sorangium cellulosum
US-09-942-025-12
  Query Match
                      100.0%; Score 27705; DB 13; Length 27705;
  Best Local Similarity 100.0%; Pred. No. 0;
  Matches 27705; Conservative 0; Mismatches
                                              0; Indels
                                                          0; Gaps
                                                                     0;
          1 GTGGCGCCGATGGACAGAATGCTTGGGTTTCTGCGCGATGCATTGGCGGATCTGCTGCAG 60
Qу
            1 GTGGCGCCGATGGACAGAATGCTTGGGGTTTCTGCGCGATGCATTGGCGGATCTGCTGCAG 60
Db
         61 GTTGCGCCGGGAGCCGTTCAGGATGATGTTCGATTCCACGAGCAGGGCCTCGACTCCGCG 120
Qу
            61 GTTGCGCCGGGAGCCGTTCAGGATGATGTTCGATTCCACGAGCAGGGCCTCGACTCCGCG 120
Db
        121 AGGGCGCTGCTCCTGGTTGAAAAGCTGTCGAGCTGGACGGGGCGCGCTCTCCCAGCCACG 180
Qу
            121 AGGGCGCTGCTCCTGGTTGAAAAGCTGTCGAGCTGGACGGGGCGCGCTCTCCCAGCCACG 180
Db
        181 CTGGTATGGCAGCACCACCCTGAACGCGCTTGCTAGGCATCTGGCGGATACAAGCGGG 240
Qу
```